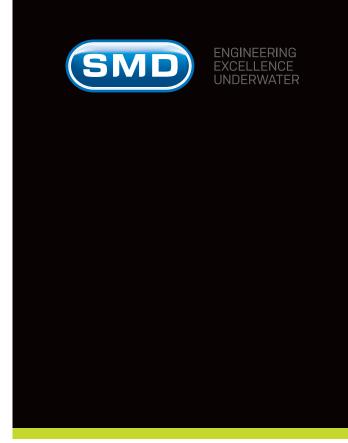


PIPELINE BACKFILL PLOUGH



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The backfill plough (BP) is designed for compatibility with the VMP trenching plough to cover rigid pipes or flexible umbilicals in the oil and gas industry. SMD has supplied pipeline ploughs for over 35 years to various customers and projects. The BP incorporates design features to allow it to operate on very soft soils without significant sinkage including large support skids and minimum weight.

FEATURES

- → 150 tonne maximum tow load
- → 2.0m maximum trench depth capability
- → Hydraulic power steering
- → 1000m maximum water depth
- → Rear driven compacting roller
- → Remotely driven mouldboard depth control
- → Optional front end loading
- → Detachable lift point
- → DVECS™ control platform
- → Hydraulic powered steering
- → Comprehensive instrumentation and surveillance

SMD CUSTOMISATION SERVICE

SMD understand that every customer is different and therefore have individual needs from their systems. In order to meet your specific requirements SMD can customise our vehicles using our range of standard components to suit your preference and performance requirements.

PIPELINE BACKFILL **PLOUGH**

SYSTEM SPECIFICATIONS

GENERAL

Depth rating

1000msw

100/140te

150/200te

Dimensions:

Length 24m Width 24m Height 8m Weight in air (skids) 110/150te

Submerged weight Maximum tow load

PERFORMANCE

Soft ground capability Ground pressure

5kPa at full trench 40kPa

±7 degrees Steering

MECHANICAL

Construction Wear parts Other

High strength steel chassis Replaceable wear resistant steel Stainless steel fittings

and housings

BACKFILL SYSTEM

Backfill blades

Symmetrical angled blades Fronts skids Follow trench

Provide support and Rear skids lateral and roll stability

HYDRAULIC SYSTEM

Installed power

Cylinders Valves Valve packs

Manifolds, pipes

and fittings

Hoses **ROV** intervention 150kW

Smart heavy duty marine type Directional and counterbalance Oil filled, pressure compensated

Stainless steel

Multi-spiral flexible hoses Hot stab capability

COMPACTION ROLLER

Trailing roller to compact soil in

centre of trench

To improve backfill quality and prevent pipe floating

Roller dimensions 175m diameter x 3m width

SUBSEA ELECTRONICS

Electronics pod One atmosphere pressure vessel

Depth rating 1000m

Test pressure 125 x working pressure

SUBSEA SURVEILLANCE

Cameras 3x cameras Pan and tilt 1x P&T units OA sonar

Tritech / Kongsberg Profiling sonar Tritech/Kongsberg/Multibeam

OTHER EQUIPMENT

Scissor Frame Control system Power system

Umbilical system

Winch HPU

200te SWL sea state 5 in 20ft ISO A60 container Housed within 10ft

ISO A60 container typically 4000m buoyant umbilical and 3te SWL winch

typically 22kW deck mounted

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